

Abstract

A portable working machine comprising a tool unit (1) with a disc guard and a circular, disc-shaped tool (3), which can be rotated about an axis of rotation (4), which is horizontal in the normal upraised position of the machine, and a machine unit (2), which includes at least a filter system (10), which is at least partly accommodated in a top part of the machine unit, an internal combustion engine (11) with an engine cylinder (13) with bore (12) having a centre line (30), a crankshaft (14) and a crankcase (15), as assembly (16) comprising members for supplying air and fuel to the engine, a fuel tank (17), a muffler (18) with an entrance port (46) provided in the rear side (42) of the muffler and facing an exhaust port (47) of the cylinder (13), i.e. the muffler is directly mounted to the cylinder, handles (19, 20), controls (21, 22) and preferably supports (23, 24) on the underside of the machine unit for allowing upright positioning of the machine on a flat ground, and a power transmission between the machine unit and the tool unit.

Especially the cylinder bore (12) is inclined forwards in a direction towards the tool unit, such that the centre line (30) of the cylinder bore forms a tilt angle ( $\alpha$ ) larger than zero, in said direction, to a perpendicular to any or both of the following lines:

- a) a base line (33), which is a line coinciding with a horizontal surface on which the machine is resting in an upright position, when said supports on the underside of the machine unit contact said surface, and
- b) a tangential line (33') extending from a peripheral point of the tool, on the lower part of the tool when the machine has an upright position, to the bottom side of a rear support (24) of the machine unit.